

HINGE ASSEMBLY

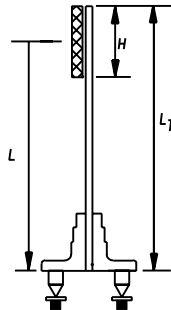
- 1) BUTT UPPER AND LOWER POSTS TOGETHER ON FLAT SURFACE.
- 2) PLACE HINGE PLATES (13) ON OUTER FLANGES AND SECURE WITH $\frac{3}{4}$ "- UNC BOLTS (14) (5) AND (16) - SNUG BUT DO NOT TIGHTEN.
- 3) MAKE SURE UPPER AND LOWER POSTS ARE IN ALIGNMENT: THEN TIGHTEN ALL NUTS (16) TO PROOF LOAD - ONE HALF OF A TURN BEYOND SNUG.

GENERAL NOTES



- 1) MEETS ALL AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".
- 2) ALL HARDWARE TO BE HOT DIP GALVANIZED PER A 153.
- 3) FASTENERS, EXCEPT FOR SPECIAL BOLT AND COUPLING, SHALL BE INSTALLED WITH LOCKWASHERS OR LOCKNUTS AND DO NOT HAVE SPECIFIC TORQUE REQUIREMENTS. FASTENERS SHOULD BE MADE AS TIGHT AS POSSIBLE WITH CONVENTIONAL WRENCHES.
- 4) SQUARE AND LEVEL INDIVIDUAL COMPONENTS TO MINIMIZE NEED FOR SHIMMING.
- 5) NO MORE THAN TWO SHIMS UNDERNEATH ANY ONE COUPLING AND NO MORE THAN THREE SHIMS UNDERNEATH ANY TWO COUPLINGS SHALL BE USED.
- 6) STRUCTURAL STEEL TO BE HOT DIP GALVANIZED PER A 123 FABRICATION
- 7) ALL BRACKETS TO BE PERMANENTLY LABELED WITH THE APPROPRIATE BRACKET TYPE AND BRACKET SELECTION NUMBER.
- 8) SELECT CORRECT BRACKET NUMBER FROM BRACKET SELECTION TABLE USING THE PROPER 'L' VALUE AS SHOWN IN THE FIGURE BELOW.

BRACKET SELECTION TABLE						
Post Width	Bracket #1		Bracket #2		Bracket #3	
	Min. 'L'	Max. 'L'	Min. 'L'	Max. 'L'	Min. 'L'	Max. 'L'
6"	12'	29'	9'	12'	————	9'
8"	14'	29'	10'	14'	————	10'
10"	16'	29'	11'	16'	————	11'
12"	18'	29'	13'	18'	————	13'
14"	19'	29'	14'	19'	————	14'

$$L = L_T - H/2$$



BRACKET NUMBER	E (INCHES)
1	0.100
2	0.150
3	0.200

SPECIFICATION 821	CATEGORY CODE ITEMS										
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY										
	<table> <tr> <td>APPROVAL • SHA REVISIONS</td><td>APPROVAL • FEDERAL HIGHWAY ADMINISTRATION</td></tr> <tr> <td>APPROVAL 10-10-00</td><td>APPROVAL 2-1-01</td></tr> <tr> <td>REVISED 10-1-01</td><td>REVISED</td></tr> <tr> <td>REVISED</td><td>REVISED</td></tr> <tr> <td>REVISED</td><td>REVISED</td></tr> </table>	APPROVAL • SHA REVISIONS	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	APPROVAL 10-10-00	APPROVAL 2-1-01	REVISED 10-1-01	REVISED	REVISED	REVISED	REVISED	REVISED
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Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
 STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

BREAKAWAY BASE SUPPORT SYSTEM FOR HIGHWAY SIGNS

STANDARD NO.

MD 821.09